



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 3

Section A

1. Give the scientific name of Mango. Identify the generic name and specific epithet.



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2. Name two diseases caused by Mycoplasmas.



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3. Who discovered the cell and what was the book written by him ?



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4. What is meant by pulvinus leaf base? In members of which angiospermic family do you find them?



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5. What are aggregate fruits? Give two examples.



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6. Write the floral formula of solanum plant.



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7. Which of the following is not correct?

A. Robert Brown discovered the cell.

B. Schleiden and Schwann formulated the cell theory.

C. Virchow explained that cells are formed from pre-existing cells.

D. A unicellular organism carries out its life activities within a single cell.

Answer:



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8. Explain the Zwitterionic form of an amino acid.



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9. If a tissue has at a given time 1024 cells. How many cycles of Mitosis had a original parental single cell undergone ?



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10. Climax stage is achieved quickly in secondary succession as compared to primary succession . Why ?



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Section B

1. Give a brief account of Dinoflagellates.



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2. Differentiate between red algae and brown algae.



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3. List the changes observed in angiosperm flower subsequent to pollination and fertilisation.



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4. Describe the non-essential floral parts of plants belonging to Fabaceae.



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5. Differentiate between Rough Endoplasmic Reticulum (RER) and Smooth Endoplasmic Reticulum (SER).



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6. Which division is necessary to maintain constant chromosome number in all body cell of multicellular organism and why ?



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7. State the location and function of different types of meristem.



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8. Give in detail the anatomical adaptations shown by xerophytes.



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Section C

1. Explain how stem is modified variously to perform different functions.



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2. With a neat, labelled diagram, describe the parts of a mature angiosperm embryo sac. Mention the role of synergids.



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3. Describe the T.S of a Monocot stem .



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